# ABSTRACT

Building and testing complex electronic products especially large scale computer systems are handled with control remaining with the owner of the design while a contract manufacturer does the basic manufacturing processes and testing. Nearly all levels of testing are accomplished without sharing high level descriptions of the end product or its features by providing only low level files for test functions. Testing is accomplished without sharing the high level code descriptive of the system design so confidential information is retained. Testing using the low level data is made sufficient to identify what parts need repair despite the lack of high-level information transfer.